

**Fig. 1**

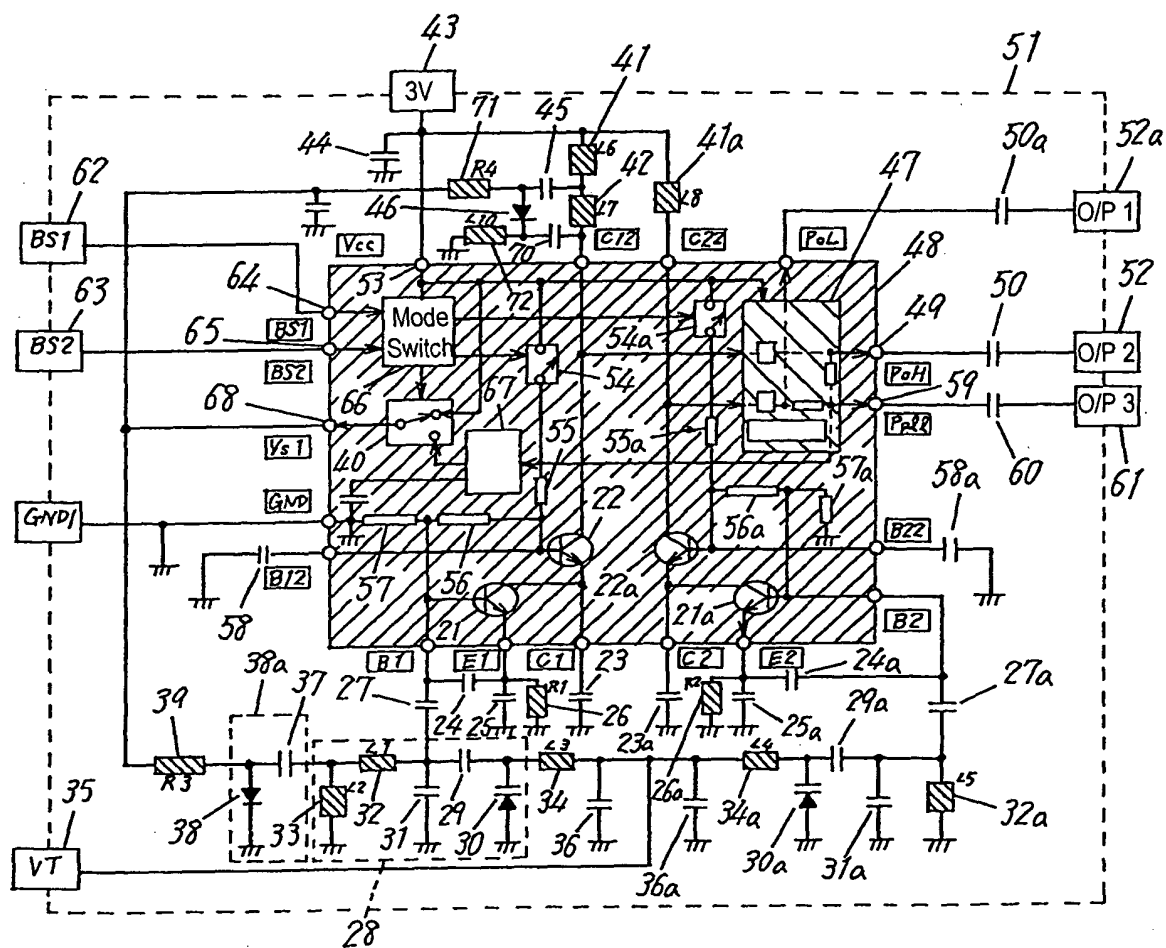
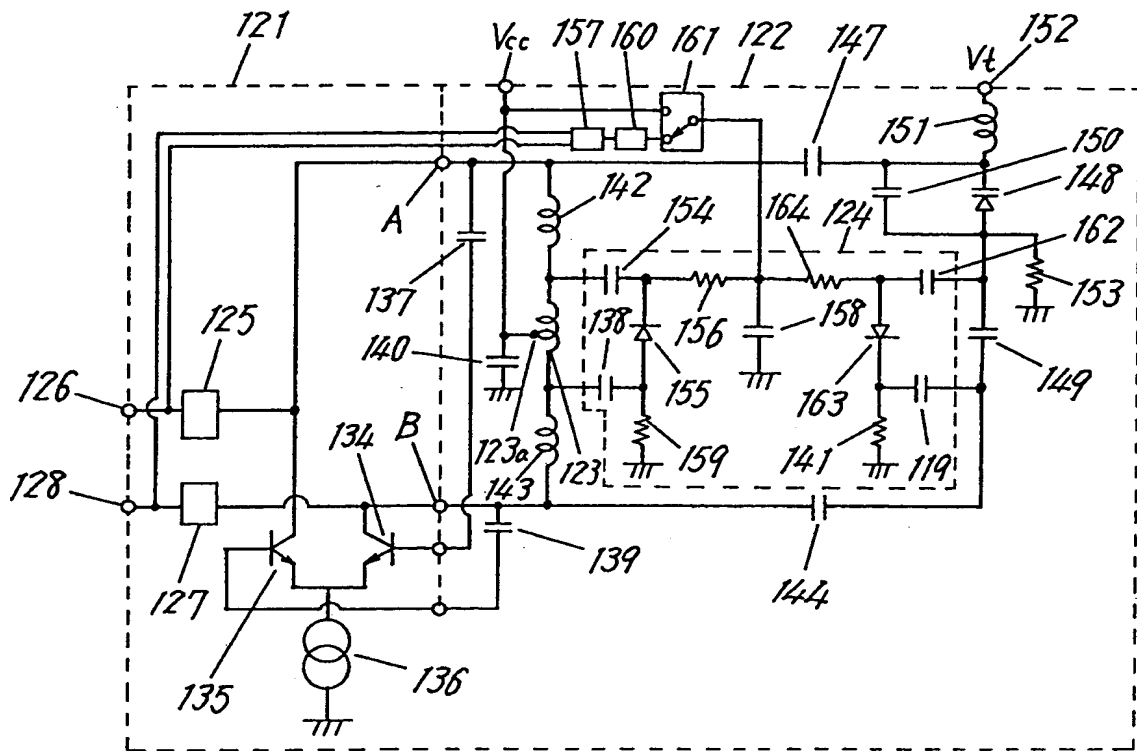


Fig. 2



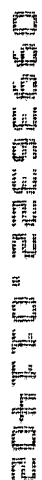
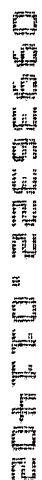
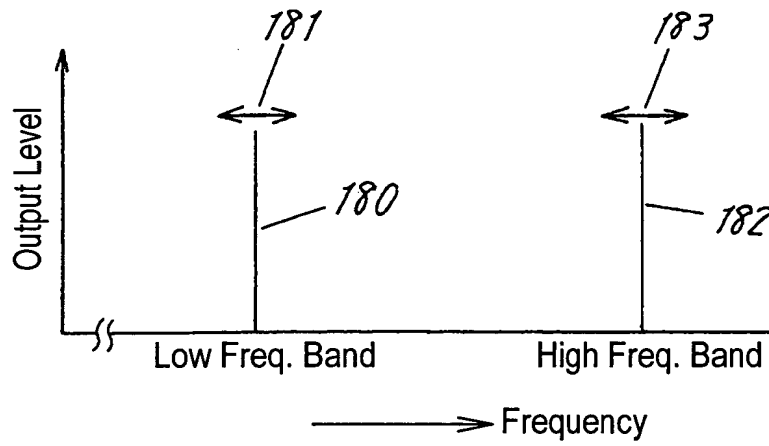
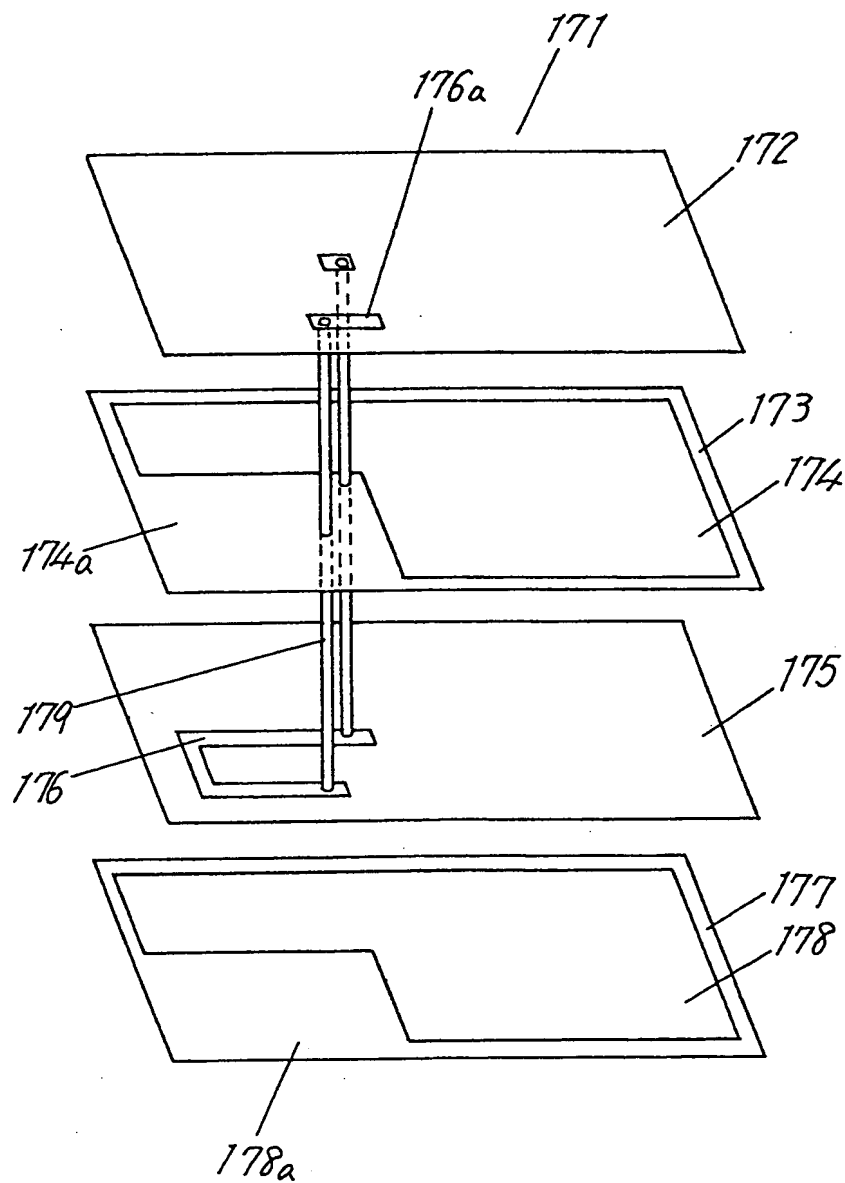
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Fig. 5



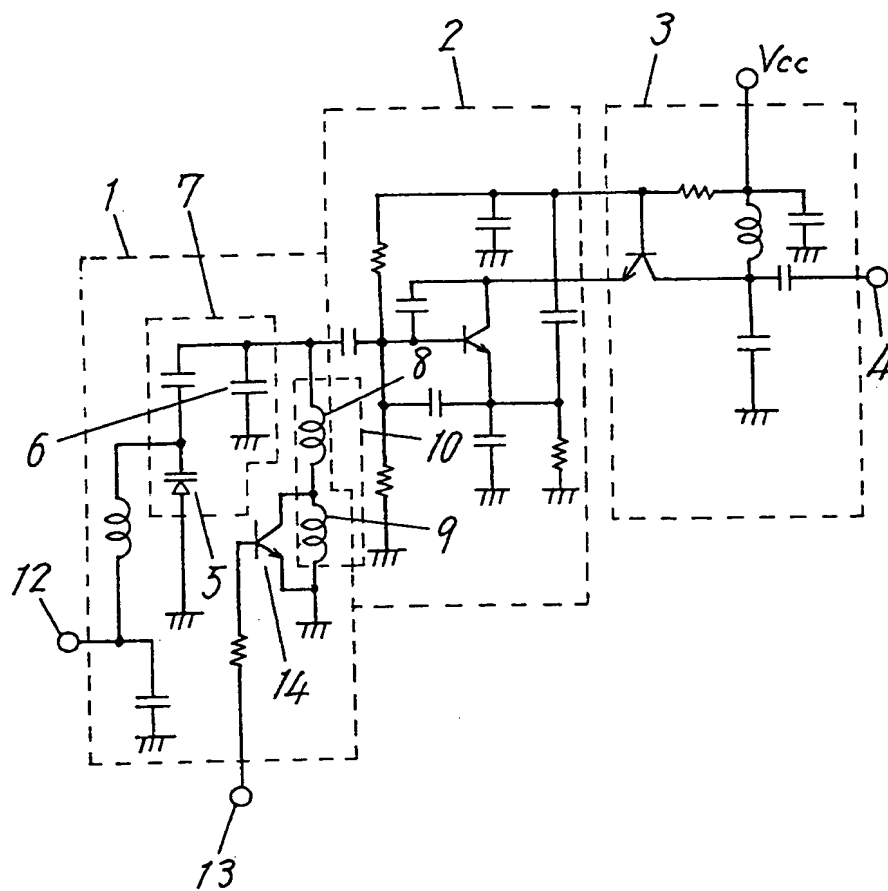
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Fig. 6



09/936322-01402

Fig. 7



09936322-014402

7/12

## Reference Numerals

- 1 Resonant Circuit
- 2 Oscillator Circuit
- 3 Buffer
- 4 Output Port
- 5 Variable-Capacitance Diode
- 6 Capacitor
- 7 Parallel Assembly
- 8 Inductor
- 9 Inductor
- 10 Series Assembly
- 12 Control Port
- 13 Band Switching Port
- 14 Electronic Switch
- 21 Oscillating Transistor
- 21a Transistor
- 22 Buffer Transistor
- 22a Transistor
- 23 Capacitor
- 23a Capacitor
- 24 Capacitor
- 24a Capacitor
- 25 Capacitor
- 25a Capacitor
- 26 Resistor

0936322-011402

- 26a Resistor
- 27 Coupling Capacitor
- 27a Capacitor
- 28 Resonant Circuit
- 29 Capacitor
- 29a Capacitor
- 30 Variable-Capacitance Diode
- 30a Variable-Capacitance Diode
- 31 Capacitor
- 31a Capacitor
- 32 Inductor
- 32a Inductor
- 33 Inductor
- 34 Inductor
- 34a Inductor
- 35 Control Port
- 36 Bypass Capacitor
- 36a Capacitor
- 37 Capacitor
- 38 Diode
- 38a Switching Means
- 39 Inductor
- 40 Switching Means
- 41 Inductor
- 41a Inductor

09/936322-01402



- 42 Inductor
- 43 Positive Power Source
- 44 Bypass Capacitor
- 45 Capacitor
- 46 Diode
- 47 Output Circuit
- 48 Package
- 49 Port
- 50 Capacitor
- 50a Capacitor
- 51 Multi-Band Voltage-Controlled Oscillator
- 52 Output Port
- 52a Output Port
- 53 Port
- 54 Switch
- 54a Switch
- 55 Resistor
- 55a Resistor
- 56 Resistor
- 56a Inductor
- 57 Resistor
- 57a Inductor
- 58 Capacitor
- 58a Capacitor
- 59 Port

09/936322-011402

- 60 Capacitor
- 61 Port
- 62 Port
- 63 Port
- 64 Port
- 65 Port
- 66 Mode Switching Circuit
- 67 Negative Source Generator
- 68 Port
- 70 Capacitor
- 71 Inductor
- 72 Inductor
- 119 Capacitor
- 121 Balanced Amplifier
- 122 Resonant Circuit
- 123 Inductor
- 123a Intermediate Point
- 124 Switching Means
- 125 Buffer
- 126 Output Port
- 127 Buffer
- 128 Output Port
- 134 Transistor
- 135 Transistor
- 136 Constant Current Source

09/936322, 011402

11/12

- 137 Capacitor
- 138 Capacitor
- 139 Capacitor
- 140 Capacitor
- 141 Resistor
- 142 Inductor
- 143 Inductor
- 144 Capacitor
- 147 Capacitor
- 148 Variable-Capacitance Diode
- 149 Capacitor
- 150 Capacitor
- 151 Inductor
- 152 Control Port
- 153 Resistor
- 154 Capacitor
- 155 Diode
- 156 Resistor
- 157 Balanced/Unbalanced Converter
- 158 Capacitor
- 159 Resistor
- 160 Negative Source Generator
- 161 Switching Means
- 162 Capacitor
- 163 Diode

09/936322-011402

12/12

164 Resistor  
165 Series Assembly  
166 Parallel Assembly  
167 Series Assembly  
169 Series Assembly  
170 Series Assembly  
171 Multi-Layer Substrate  
172 First Layer  
173 Second Layer  
174 Grounding Pattern  
174a Pattern-Unformed Portion  
175 Third Layer  
176 Inductor  
176a Inductor  
177 Part of Inductor  
178 Fourth Layer  
179 Grounding Pattern  
180 About 900MHz  
181 Frequency Varied Range  
182 About 1800MHz  
183 Frequency Varied Range  
A Port  
B Port  
Vcc Power Source

09/936322.01.1402